# PATENT COOPERATION TREATY PCT

REC'D 0 3 DEC 2004

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Appl	licant's	or ag	ent's file reference	Т		0 - N-16 - 1		
	423F	_		FOR FURTHER A	CTION		n of Transmittal of Internationa amination Report (Form PCT/II	
International application No. PCT/US 03/30195				International filing date 22.09.2003	(day/mon	th/year)	Priority date (day/month/year	)
			ent Classification (IPC) or b		and IDO		30.09.2002	
	2D21/		on Classification (IFC) of D	our nauonar ciassincation	and IPC			
Appl	icant					<del></del>		
MA	GNA	INTE	RNATIONAL INC. ET	Γ AL				
1.	This Auth	interi ority	national preliminary exa and is transmitted to the	mination report has be applicant according to	en prepai Article 3	red by this Inte	rnational Preliminary Exami	ining
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.							
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	IZ3I	bee	n amended and are the	basis for this report an	d <i>l</i> or shee	ts containing re	on, claims and/or drawings vectifications made before th	which have is Authority
	Tho		Rule 70.16 and Section		tive instr	uctions under t	ne PC1).	
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3.	Thie	reno	t contains indications re	ulating to the following i	tomo			
Э.	ı	iepo. ⊠		nating to the following i	tems:			
	ı II		Basis of the opinion Priority					
	Ш		•	opinion with regard to r	novelty, ir	nventive step a	nd industrial applicability	
	IV		Lack of unity of inventi		•	•	,,,	
	V 🖾 Reasoned statement under Rule 66.2(a)(			under Rule 66.2(a)(ii) w ions supporting such st	rith regard	d to novelty, inv	entive step or industrial ap	plicability;
	VI		Certain documents cite	ed				
	VII		Certain defects in the i	international application	า			
	VIII		Certain observations o	on the international app	lication			
	-4				T =			
Date	or sub	missic	n of the demand		Date of	completion of thi	s report	
16.04.2004			06.12.	2004				
Name	Name and mailing address of the International preliminary examining authority:			al	Authorized Officer			
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas			Westla	and. P	,	Specim M. E.		
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016				ne No. +31 70 3	40-3722			
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US 03/30195

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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-8		as originally filed					
	Cla	ims, Numbers						
	1-26	-	received on 17.09.2004 with letter of 15.09.2004					
	Dra	wings, Sheets						
	1/4-	4/4	as originally filed					
2. With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority language in which the international application was filed, unless otherwise indicated under this item.								
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
<ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international applic international preliminary examination was carried out on the basis of the sequence listing:</li> </ol>								
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form.						
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US 03/30195

This report has been established as if (some of) the amendments had not been made, since they have	е
been considered to go beyond the disclosure as filed (Rule 70.2(c)).	

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

see separate sheet

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-26

No: Claims

Inventive step (IS)

Yes: Claims

1-26

No: Claims

Industrial applicability (IA)

Yes: Claims

1-26

No: Claims

2. Citations and explanations

see separate sheet

## **EXAMINATION REPORT - SEPARATE SHEET**

## Re Item I

### Basis of the report

Claims 25 and 26 of the amended claims received by telefax on 15.09.2004 were obscured. Hence the confirmation copy, received 17.09.2004, was used for this report.

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: DE 198 22 731 A (BAYERISCHE MOTOREN WERKE AG) 25 November 1999 (1999-11-25)
- D2: US-A-5 915 727 (BONNVILLE KENNETH J) 29 June 1999 (1999-06-29)
- D3: DE 100 23 506 A (WAGON AUTOMOTIVE GMBH) 25 October 2001 (2001-10-25)

#### 1 Claims 1-10,21,22

1.1 The document D1 is regarded as being the closest prior art to the subject-matter of claim 1 and shows (the references in parentheses applying to this document):

a cross member (of a sub-frame) for a motor vehicle, comprising: an elongated, center structure (front cross member) having a first end (17), a mid portion (2), and a second end (17, same references left and right), said center structure (2) being formed as a non-cast structure (extruded, or tube with a longitudinal welded seam; see col.2, lines 40-66);

a first casting (4, see claim 2) rigidly connected to said first end (17) of said center structure (2);

and a second casting (4) rigidly connected to said second end (17) of said center structure, each of said first and second castings (14) being configured and arranged to be attached to a respective motor vehicle element (by means of seating elements, 6, to the vehicle body).

The subject-matter of claim 1 differs from this known cross member in that:

each of said first and second ends of said center structure includes a flange extending from said center structure and constructed and arranged to rigidify and

## INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

strengthen said center structure while providing a surface that can be placed against a side surface of a respective casting of said first and second castings for attachment with said respective casting of said first and second castings.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

1.2 The problem to be solved by the present invention may be regarded as providing attachment surfaces on the center structure for the castings which also serve to rigidify and strengthen the center structure.

The solution to this problem proposed in claim 1 of the present application is not disclosed in or rendered obvious by the available prior art, e.g. by D1-D3. Document D1 discloses flanges of some sort, but ones which do not extend from the center structure, thereby neither rigidifying nor strengthening the structure in providing attachment surfaces. Therefore the subject-matter of claim 1 is considered as involving an inventive step (Article 33(3) PCT).

1.3 Claims 2-10,21,22 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

#### 2 Claims 10-13,23,24

- 2.1 Claim 10 is directed towards a vehicle frame which comprises, amongst other things, a cross member according to claim 1 and as such also meets the requirements of the PCT with respect to novelty and inventive step for the reasons given in paragraph 1.
- 2.2 Claims 11-13,23,24 are dependent on claim 10 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

#### 3 Claims 14-19,25

Claim 14 is directed towards a method of forming the cross member of claim 1 and as such also meets the requirements of the PCT with respect to novelty and inventive step for the reasons given in paragraph 1.



3.2 Claims 15-19,25 are dependent on claim 14 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

#### 4 **Claims 20,26**

- Claim 20 is directed towards a method of forming of a motor vehicle frame which comprises the cross member of claim 1 and as such also meets the requirements of the PCT with respect to novelty and inventive step for the reasons given in paragraph 1.
- 4.2 Claim 26 is dependent on claim 20 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- Use in the automobile industry as structural components. 5